

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently amended) A polyolefin composition having high resistance to degradation comprising:

at least one polyolefin comprising a polymerization product of one or more monomers in the presence of a transition metal halide catalyst comprising a metal halide compound selected from metal dihalides or metal hydroxyhalides and a transition metal compound, wherein the metal of the metal halide compound is a Group IIA/IIB metal;

bis(2,4-dicumylphenyl)pentaerythritol diphosphite;

triisopropanolamine;

at least one hydrotalcite component, and

at least one phenol component present in the composition in an amount up to about less than 5000 mg/kg based on the mass of the polyolefin component without additives.
2. (Canceled)
3. (Previously presented) The polyolefin composition of claim 1, wherein the monomers are selected from olefins, conjugated or non-conjugated diolefins or mixtures thereof.
4. (Original) The polyolefin composition of claim 1, wherein bis(2,4-dicumylphenyl)pentaerythritol diphosphite is present in the composition in an amount within a range of about 100 mg/kg to about 5000 mg/kg based on the mass of the polyolefin component without additives.
5. (Original) The polyolefin composition of claim 1, wherein bis(2,4-dicumylphenyl)pentaerythritol diphosphite is present in the composition in an amount within a

range of about 100 mg/kg to about 2000 mg/kg based on the mass of the polyolefin component without additives.

6. (Original) The polyolefin composition of claim 1, wherein bis(2,4-dicumylphenyl)pentaerythritol diphosphite is present in the composition in an amount within a range of about 100 mg/kg to about 1500 mg/kg based on the mass of the polyolefin component without additives.

7. (Original) The polyolefin composition of claim 1, wherein triisopropanolamine is present in the composition in an amount within a range of about 0.5% by weight to about 3% by weight based on the mass of the polyolefin component without additives.

8. (Original) The polyolefin composition of claim 1, wherein triisopropanolamine is present in the composition in an amount within a range of about 0.5% by weight to about 2% by weight based on the mass of the polyolefin component without additives.

9. (Previously presented) The polyolefin composition of claim 1, wherein the at least one hydrotalcite component is present in the composition in an amount up to about 500 mg/kg based on the mass of the polyolefin component without additives.

10. (Previously presented) The polyolefin composition of claim 1, wherein the at least one hydrotalcite component is present in the composition in an amount within a range of about 10 mg/kg to about 300 mg/kg based on the mass of the polyolefin component without additives.

11. (Previously presented) The polyolefin composition of claim 1, wherein the at least one hydrotalcite component is present in the composition in an amount within a range of about 10 mg/kg to about 150 mg/kg based on the mass of the polyolefin component without additives.

12. (Canceled).

13. (Currently amended) The polyolefin composition of claim 1, wherein the at least one phenol component is present in the composition in an amount within a range of ~~about 1-50~~ mg/kg to about 2000 mg/kg based on the mass of the polyolefin component without additives.

14. (Previously presented) The polyolefin composition of claim 1, wherein the at least one hydrotalcite component is selected from $Mg_{0.7}Al_{0.3}(OH)_2(CO_3)_{0.15} \cdot 0.54H_2O$, $Mg_{4.5}Al_2(OH)_{13}CO_3 \cdot 3.5H_2O$, $MgCO_3 \cdot 5Mg(OH)_2 \cdot 2Al(OH)_3 \cdot 4H_2O$, or $Mg_{4.2}Al_2(OH)_{12.4}CO_3$.

15. (Previously presented) The polyolefin composition of claim 1, wherein the at least one phenol component is selected from monophenols, bisphenols, thiobisphenols, polyphenols, hydroxybenzyl aromates, amides of β -(3,5-di-tert-butyl-4-hydroxyphenyl)-propionic acid, esters of β -(3,5-di-tert-butyl-4-hydroxyphenyl)-propionic acid with mono- or polyvalent alcohols, spiro compounds, or mixtures thereof.

16. (Previously presented) The polyolefin composition of claim 1, wherein the at least one phenol component is selected from tetrakis [methylene (3,5-di-tert-butyl-4-hydroxyhydrocinnamate)]methane; 1,3,5-tri-(3,5-di-tert-butyl-4-hydroxybenzyl)-2,4,6-trimethylbenzene; β -(3,5-di-tert-butyl-4-hydroxyphenyl)-propionic acid-n-octadecyl ester; 2,6-di-tert-butyl-4-methylphenol; 3,9-bis-[1,1-dimethyl-2-(3,5-di-tert-butyl-4-hydroxy-phenyl)-ethyl]-2,4,8,10-tetraoxaspiro-[5,5]-undecane, or mixtures thereof.

17. (Previously presented) The polyolefin composition of claim 1, wherein the at least one hydrotalcite component is $MgCO_3 \cdot 5Mg(OH)_2 \cdot 2Al(OH)_3 \cdot 4H_2O$.

18. (Previously presented) The polyolefin composition of claim 1, wherein the at least one phenol component is tetrakis [methylene (3,5-di-tert-butyl-4-hydroxyhydrocinnamate)]methane.

19. (Previously presented) The polyolefin composition of claim 3, wherein the olefins are selected from ethylene, propylene, 1-butene, 1-pentene, 4-methyl-1-pentene, 1-hexene, 1-octene or mixtures thereof.
20. (Previously presented) The polyolefin composition of claim 3, wherein the conjugated or non-conjugated diolefins are selected from 1,3-butadiene, isoprene, piperylene, 2,3-dimethyl-1,3-butadiene, 1,4-pentadiene, 1,7-hexadiene or mixtures thereof.
21. (Previously presented) The polyolefin composition of claim 1, wherein the at least one hydrotalcite component is a magnesium-aluminum hydroxide compound, a zinc-aluminum hydroxide compound, or a mixture thereof.
22. (Previously presented) The polyolefin composition of claim 1, further comprising at least one agent selected from antifogging agents, antimicrobial agents, coupling agents, flame retardants, foaming agents, fragrances, lubricants, mold release agents, organic peroxides, smoke suppressants, heat stabilizers, or any combination thereof.